

Save time, money and effort. Save the planet. Make Izonil your natural choice for waterproofing.

Izonil Waterproof and Breathable Plaster

Description :

Izonil Waterproof and Breathable Plaster provides a totally waterproof barrier, without the need for a membrane. Applied direct to walls it seals and prevents the ingress of water either side of the plaster while remaining vapour and air-permeable, allowing trapped moisture to evaporate. It does not contain harmful or flammable ingredients and so is environmentally friendly.

Izonil Waterproof and Breathable Plaster is a high quality, cement/lime based, fibre reinforced, rendering and plastering mortar for masonry that meets the requirements of BS EN 998-1. Manufactured to strictly controlled specifications, it is supplied as a ready mixed powder that requires only the addition of water on site.

Can be used on any conventional masonry such as brick, stone, blockwork and concrete from 15 to 30mm thickness. NOT suitable for application onto plasterboards! Izonil Plaster is a fine grade mortar and so offers a 'one coat' solution providing undercoat and professional finish coat.

Uses

- old, listed and heritage buildings,
- cellars and basements, bathrooms,
- showers, wet-rooms, swimming pools
- external walls, facades, plinths

Benefits :

- Continuous laboratory testing for composition and quality
- 10 year guarantee on water resistance
- No need for membrane or any other additional layers
- Vapour-permeable, allowing trapped moisture to evaporate
- Easy to use- no special tools, skills or training are required
- More cost-effective than any other multi-layered solutions
- Applicable as above-grade or sub-grade insulation
- No bituminous or toxic ingredients

More than 6 millions square foot reference, including World Heritage sites.

Surface preparation

Before applying Izonil Waterproof and Breathable Plaster mechanically prepare the substrate to provide a structurally sound surface. Remove all existing render, plaster, grease, oil, dirt and deleterious material. All water inrushes must be cured and stopped before applying Izonil Plaster. Clean the surface with clean water. To maximize cohesion a thin mixture of cement and water slurry or other standard primer must be applied on to the surface before plastering.

Mixing

Add 0,4 to 0,5 liters of clean water to each bag (25kg) of Izonil Waterproof and Breathable Plaster. Mixing is recommended by hand or concrete mixer. Working time of approximately 1 to 2 hours.

Application :

Izonil Waterproof and Breathable Plaster can be applied by trowel or mortar gun. Applicable in one single layer, 15mm thick or in 2-3 layers, 10mm thick per layer. Final layer can be finished with standard plastering tools, while the product is still workable.

Curing

Drying time: 28 days in ambient conditions.

Must be protected from drying too quickly.

Final layer of the Izonil Plaster could be painted or tiled after drying.

Packaging

25 kg paper bags

Coverage

One 25 kg bag will cover up to 1.1 m² with a 15 mm thick layer.

Shelf Life

18 months.

Technical Data

Compressive strength 3,4 N/mm²

Depth of water penetration of hardened mortar \leq 1 mm

Water vapour diffusion resistance coefficient (μ) 12.4

It is acknowledged that when renovating old buildings, basements, cellars, etc a major challenge is solving the problem of damp and wet walls.

Buildings lose their resistance to water over time and this promotes the capillary action of rising damp. Dampness penetrates through the walls into the plaster and causes wet patches, the formation of mildew and salt efflorescence – all of which can cause the plaster to fall off.

Such problems make a house uncomfortable and unhealthy to live in. Ultimately parts of the property will become uninhabitable.

Conventional waterproofing methods require several processes. For example, one of the most well known techniques is to apply a membrane between the walls and the plaster. Multi-step processes are both time consuming and costly.

The one step waterproofing solution developed by Izonil simplifies the whole process. It's Waterproof and Breathable Plaster provides a totally waterproof barrier, without the need for a membrane. Applied direct to walls it seals and prevents the ingress of water either side of the plaster while remaining vapour and air-permeable, allowing trapped moisture to evaporate. Unlike most waterproofing solutions, Izonil Waterproof and Breathable Plaster does not trap moisture by "wrapping the wall in a plastic bag."

How to use ?

Before applying Izonil Waterproof and Breathable Plaster mechanically prepare the substrate to provide a structurally sound surface. Remove all existing render, plaster, grease, oil, dirt and deleterious material. Clean the surface with clean water. To maximize cohesion a thin mixture of cement and water slurry or other standard primer must be applied on to the surface before plastering.

Add 0,4 to 0,5 liters of clean water to each bag (25kg) of Izonil W&B Plaster. Mixing is recommended by hand or concrete mixer, forced action mixer. Mix for at least for 3 to 5 minutes in the mixer until the mixture becomes smooth, thick, creamy consistency.

Izonil W&B Plaster can be applied by trowel or mortar gun. Apply in one single layer, 15mm thick or in 2-3 layers, 10mm thick per layer. Izonil W&B Plaster is a fine grade mortar and so offers a 'one coat' solution providing undercoat and professional finish coat. Can be finished with standard plastering tools, while the product is still workable.

Customer feedback :

"As in every job the final outcome generally rests with the degree of preparation that has gone before it, as we were working on an old brick vault. We blasted the walls as recommended with a high pressure water hose, which was both quick and effective. From then on it was a case of "Izonil W&BP" does everything it says on the tin. If you are working in a confined space like we were clear the area completely and put a cover on the floor, this is more for the pre-application coat of cement and water than the Izonil. The Izonil is easy to prepare and apply leaving a much better finish than I had anticipated. We applied it as one 15mm coat, which seems perfectly adequate. For some reason from mixing onwards the product inspired me with the confidence it was going to work, and it has brilliantly, we got about 1.5m² per 25kilo bag, which to my mind makes it a very cost effect remedy to the perennial damp problem. What I really like about the spec is that it is breathable, so I am much looking forward to using it for the first time in a external application, traditional render making some stone built buildings sweat internally. Thank you for introducing this product to me, I consider its place in my product awareness, another string to my bow in my efforts to become a building sage."

At Izonil we believe the greatest solutions are simple ideas inspired by nature.

Innovative, easy to use, products that provide guaranteed water protection are the cornerstones of our success.

When we founded the company in 1991 our goal was to improve and enhance conventional construction products while adding value for users. Today we remain true to these principles and continue to identify and develop innovative building products that provide outstanding solutions to problems.

Izonil's focus is on preserving simple, conventional methods of application so that no specialist expertise is needed to apply our products.

We feel strongly about the environmental impact of every development and manufacturing process we undertake and endeavor to only use natural raw materials of outstanding quality. As a result none of our products contain bituminous or harmful ingredients.

Our leading products are Izonil Waterproof and Breathable Plaster and Izonil Lightweight and Waterproof Screed. Resulting from decades of research and development, these products offer one-step waterproofing solutions for walls, floors and roofs.

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